## 10010591-1

## ABSTRACT OF THE DISCLOSURE UNDER 37 C.F.R. §1.72(b)

A method for controlling electronics across an RF barrier is disclosed. The method comprises a serial data control method that requires a limited number of signals passing through an RF barrier and does not require a free running clock. This method uses a processor with an associated serial data control bus that is located external to the RF chamber. An address dependent form of the serial bus passes through an interface to the RF cavity. The processor uses the serial bus to control electronics inside the RF cavity. The control method uses a minimum number of signals passing through the interface to the RF cavity, thereby preserving the RF isolation of the RF cavity from the external environment.

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